

Duration: 60 Mins

Total Marks: 30

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1. Which instrument is used for measuring heat?

- A) Anemometer
- B) Calorimeter
- C) Thermometer
- D) Ammeter

Answer: B) Calorimeter

2. What is the absolute pressure of gas in a cylinder, if gauge reads 135.3 p.s.i.?

- A) 160 p.s.i.a
- B) 140 p.s.i.a
- C) 130 p.s.i.a
- D) 150 p.s.i.a

Answer: D) 150 p.s.i.a

3. Which condition is maintained for refrigerant in high side of vapour compression system?

- A) Above its freezing temperature
- B) Below its freezing temperature
- C) Below its critical temperature
- D) Above its critical temperature

Answer: C) Below its critical temperature

4. Which law is related to the constant PV at constant T?

- A) Pascal s law
- B) Boyles law
- C) Renaults law
- D) Charles s law

Answer: B) Boyles law

5. Which method is used to connect the swaged joint in copper tubes?

- A) TIG welding
- B) Silver brazing
- C) Lead soldering
- D) Fusion welding

Answer: B) Silver brazing

6. What is top dead centre in reciprocating compressor cylinder?

- A) The piston moves up from the point of cylinder
- B) The piston moves down from the point of cylinder
- C) The piston stops in cylinder at bottom
- D) The piston starts in cylinder at bottom

Answer: B) The piston moves down from the point of cylinder

7. What is the capacity of doing work?

- A) Energy
- B) Force
- C) Work
- D) Power

Answer: A) Energy

8. Which factors produce work?

- A) Time and distance
- B) Force and time
- C) Force and power
- D) Force and distance

Answer: D) Force and distance

9. What is the barometer reading at sea level in Hg column?

- A) 750 mm
- B) 760 mm
- C) 730 mm
- D) 740 mm

Answer: B) 760 mm

10. Which two components do the compressor function in vapour absorption system?

- A) Generator and absorber
- B) Generator and separator
- C) Generator and evaporator
- D) Generator and condenser

Answer: A) Generator and absorber

11. Which instrument is used to measure atmospheric pressure?

- A) Hygrometer
- B) Barometer
- C) Manometer
- D) Hydrometer

Answer: B) Barometer

12. Which components are connected by metering device in vapour compression cycle?

- A) Condenser and evaporator
- B) Compressor and evaporator
- C) Compressor and condenser
- D) Evaporator and suction line

Answer: A) Condenser and evaporator

13. What is the physical state of ammonia at condenser inlet in vapour absorption system?

- A) Semi solid
- B) Vapour
- C) Solid
- D) Liquid

Answer: B) Vapour

14. Which compressor dome handles high pressure and high temperature vapour?

- A) Semi hermetic reciprocating compressor
- B) Hermetic rotary compressor
- C) Hermetic reciprocating compressor
- D) Open type reciprocating compressor

Answer: B) Hermetic rotary compressor

15. Which thermodynamic process the temperature is kept constant?

- A) Isobaric process B) Isothermal process
C) Constant volume process D) Constant pressure process

Answer: B) Isothermal process

16. What is the purpose of accumulator in a refrigerator?

- A) Improves oil circulation B) Prevents surging of refrigerant
C) Prevents liquid flood back to compressor D) Avoids hunting of refrigerant

Answer: C) Prevents liquid flood back to compressor

17. How the level of heat in a substance is expressed?

- A) Temperature B) Pressure
C) Micron D) Humidity

Answer: A) Temperature

18. What is the melting temperature of silver brazing rod?

- A) 1200 Degree F B) 1250 Degree F
C) 1300 Degree F D) 1120 Degree F

Answer: D) 1120 Degree F

19. What is the absolute zero temperature in degree centigrade?

- A) -273 Degree Centigrade B) 0 Degree Centigrade
C) 100 Degree Centigrade D) 212 Degree Centigrade

Answer: A) -273 Degree Centigrade

20. What is the equivalent absolute scale for centigrade?

- A) Fahrenheit B) Rankine
C) Kelvin D) Celsius

Answer: C) Kelvin

21. What is the atmospheric pressure at sea level?

- A) 1.033 kg/cm² B) 1.5 Kg/cm²
C) 1.6 Kg/cm² D) 1.3 Kg/cm²

Answer: A) 1.033 kg/cm²

22. Which components maintain the pressure difference in RAC system?

- A) Evaporator and motor B) Compressor and expansion device
C) Condenser and filter D) Receiver and condenser

Answer: B) Compressor and expansion device

23. What is the boiling point of pure water in centigrade scale?

- A) 0 Degree Centigrade B) 212 Degree Centigrade
C) 32 Degree Centigrade D) 100 Degree Centigrade

Answer: D) 100 Degree Centigrade

24. What is the unit of heat in M.K.S system?

- A) K.W (Kilo Watt) B) KV (Kilo Volt)
C) B.T.U (British thermal unit) D) K.Cal (Kilo Calorie)

Answer: D) K.Cal (Kilo Calorie)

25. What is the rate of doing work?

- A) Velocity B) Force
C) Power D) Duty

Answer: C) Power

26. What is bottom dead centre in reciprocating compressor cylinder?

- A) The piston moves up from the point of cylinder
B) The piston stops in cylinder at top
C) The piston moves down from the point of cylinder
D) The piston starts in cylinder at top

Answer: A) The piston moves up from the point of cylinder

27. What is the advantage of using flux in brazing?

- A) Over heating B) Prevent Oxidation
C) Chemical reaction D) Melting tubes

Answer: B) Prevent Oxidation

28. Which refrigeration system works on directly by the heat energy?

- A) Jet refrigeration B) Mechanical refrigeration
C) Vapour absorption refrigeration D) Vapour compression refrigeration

Answer: C) Vapour absorption refrigeration

29. What is the energy of a body by virtue of its position?

- A) Electrical energy B) Kinetic energy
C) Potential energy D) Wind energy

Answer: C) Potential energy

30. Which component controls the thermostat and defrost heater in frost free refrigerator?

- A) OLP B) Defrost timer
C) Relay D) Thermoheater

Answer: B) Defrost timer